Aj	pplication No.	Applicant(s)
Notice of Allowability Exa	724,374	BAE ET AL.
	aminer	Art Unit
	p A. Lee	1713
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS (OF herewith (or previously mailed), a Notice of Allowance (PTOL-85) or o NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGH of the Office or upon petition by the applicant. See 37 CFR 1.313 and	REMAINS) CLOSED other appropriate comm TS. This application is	in this application. If not included
1. This communication is responsive to <u>June 17, 2005</u> .		
2. ☑ The allowed claim(s) is/are <u>5, 8-13 and 22-24</u> .		
3. The drawings filed on are accepted by the Examiner.		
4. Acknowledgment is made of a claim for foreign priority under	35 U.S.C. § 119(a)-(d)	or (f).
 a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been approximately appro	an received	
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Copies of the certified copies of the priority documents have been detailed.		
International Bureau (PCT Rule 17.2(a)).	Cina Have Deel (808)V	ed in this hational stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of the noted below. Failure to timely comply will result in ABANDONMENTHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	nis communication to fil F of this application.	e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives re	. Note the attached EX eason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF or declaration is deficient.
3. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be	submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's		ew (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's An Paper No./Mail Date	nendment / Comment o	or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c	e)) should be written on e	the drawings in the front (not the back) of FR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR	of BIOLOGICAL MAT	ERIAL must be submitted. Note the
Attachment(s) Ⅰ. ☑ Notice of References Cited (PTO-892)	5 D Notice of I	nformal Patent Application (PTO-152)
Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),	Paper No 7. ⊠ Examiner's	./Mail Dates s Amendment/Comment
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Paper No./Mail Date □ Examiner's Comment Regarding Requirement for Deposit		s Statement of Reasons for Allowance
Paper No./Mail Date	8. ⊠ Examiner's 9. □ Other	
Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit		
Paper No./Mail Date □ Examiner's Comment Regarding Requirement for Deposit		

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James L. Lewis on June 27, 2005.

Cancel claims 1-4 and 14-21.

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Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claims 5, 8-13, and 22-24 are allowed over the closest references, Wehner *et al.* (U.S. 6,084,013) and Isao *et al.* (U.S. 4,659,764).

The present invention is drawn to a plastic composition comprising polyvinyl chloride, from 15 o 150 pw of aluminum hydroxide per 100 pw of polyvinyl chloride, and an effective amount of an alkali metal perchlorate.

Wehner *et al.* discloses a stabilizer combination comprising least one compound selected from the group consisting of aluminum hydroxides in an amount of 0.05-10 pw, and the composition further contains a perchlorate compound such as an alkali metal perchlorates (NaClO₄) used in an amount of 0.001-5 pw based on 100 parts of PVC resin and plasticizer. Plasticizers include dialkyl phthalates and trialkyl mellitates. Metal soaps are also incorporated into the composition, and preference is given to calcium, magnesium, and zinc salts of C₇₋₁₈ carboxylic acids. The patent teaches a considerably lower amount of aluminum hydroxide flame retardant in conjunction with perchlorate.

Isao *et al.* teaches a composition comprised of polyvinyl chloride, plasticizer, stabilizer, a C₅-C₈ metal carboxylate mixture wherein the metals are Ba and Zn in a 1:2 to 5:1 ratio, and at least one compound selected from the group consisting of magnesium perchlorate wherein the amount of magnesium compound is 0.1-5 parts by weight based on 100 parts by weight of polyvinyl chloride. Use of a small amount of inorganic compound such as aluminum hydroxide is contemplated, and apparently, this is a flame retardant amount since Al(OH)₃ has flame retardant properties. The plasticizer is dialkyl phthalate or trialkyl mellitate. The reference does not teach the claimed range of aluminum hydroxide, and it teaches specific use of alkaline earth perchlorates rather than alkali metal perchlorates.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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The prior art made of record but not relied upon is considered pertinent to the Applicant's

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disclosure. The references in the accompanying PTO-892 have been cited to show the state of

the art with respect to stabilized PVC compositions. These compositions contain one of the

additives indicated in the claims.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Rip A. Lee whose telephone number is (571)272-1104. The

examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be

reached at (571)272-1114. The fax phone number for the organization where this application or

proceeding is assigned is (703)872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on the access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

ral

June 27, 2005

DAVID W. WU SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1700